

SEQUENCE LISTING

<110> Mueller, Sybille, Kohler, Heinz

<120> NUCLEOTIDE SEQUENCES ENCODING VARIABLE REGIONS OF HEAVY AND LIGHT CHAINS OF MONOCLONAL ANTIBODY 1F7, AN ANTI-IDIOTYPIC ANTIBODY REACTIVE WITH ANTI-HIV ANTIBODIES

<130> 200-013

<160> 38

<170> PatentIn version 3.0

<210> 1

<211> 37

<212> DNA

<213> mouse

<220>

<221> primer\_bind

<222> (1)..(37)

<223> 1F7 heavy chain 5' primer

<400> 1

actagtcgac atgaaatgca gctgggtcat sttcttc

37

<210> 2

<211> 32

<212> DNA

<213> mouse

<220>

<221> primer\_bind

<222> (1)..(32)

<223> 1F7 heavy chain 3' primer

<400> 2

cccaagctta cgagggggaa gacatttggg aa

32

<210> 3

<211> 33

<212> DNA

<213> mouse

<220>

<221> primer\_bind

<222> (1)..(33)

<223> 1F7 light chain 5' primer

<400> 3

gggaattcat ggagacagac acactcctgc tat

33

<210> 4  
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<220>  
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 <222> (1)..(30)  
 <223> 1F7 light chain 3' primer

<400> 4  
 cccaagctta ctggatgggtg ggaagatgga

30

<210> 5  
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 <212> DNA  
 <213> mouse

<220>  
 <221> gene  
 <222> (1)..(362)  
 <223> 1F7 VH chain gene

<400> 5  
 caggttactc tgaaagagtc tggccctggg atattgcagc cctcccagac cctcagtctg 60  
 acttggttctt tctctgggtt ttcactgagc acttctggta tgggtgtgag ctggattcga 120  
 cagccttcag gaaaggggtct ggagtggctg gcacacattt actgggatga tgacaagcgc 180  
 tataacccat ccctgaagag ccggcttaca atctccaagg atacctccag caaccaggta 240  
 ttcttcaaga tcaccagtgt ggacactcga gatactgcca catactactg tgctcgaagg 300  
 gtctctctaa ctgcctatgc tatggactac tgggggtcaag gaacctcagt caccgtctcc 360  
 tca 363

<210> 6  
 <211> 363  
 <212> DNA  
 <213> mouse

<220>  
 <221> CDS  
 <222> (1)..(363)  
 <223> 1F7 VH chain gene

<400> 6  
 cag gtt act ctg aaa gag tct ggc cct ggg ata ttg cag ccc tcc cag  
 Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln Pro Ser Gln  
 1 5 10 15

48

acc ctc agt ctg act tgt tct ttc tct ggg ttt tca ctg agc act tct 96  
 Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Ser  
 20 25 30

ggt atg ggt gtg agc tgg att cga cag cct tca gga aag ggt ctg gag 144  
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu  
 35 40 45

tgg ctg gca cac att tac tgg gat gat gac aag cgc tat aac cca tcc 192  
 Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser  
 50 55 60

ctg aag agc cgg ctt aca atc tcc aag gat acc tcc agc aac cag gta 240  
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Ser Asn Gln Val  
 65 70 75 80

ttc ctc aag atc acc agt gtg gac act cga gat act gcc aca tac tac 288  
 Phe Leu Lys Ile Thr Ser Val Asp Thr Arg Asp Thr Ala Thr Tyr Tyr  
 85 90 95

tgt gct cga agg gtc tct cta act gcc tat gct atg gac tac tgg ggt 336  
 Cys Ala Arg Arg Val Ser Leu Thr Ala Tyr Ala Met Asp Tyr Trp Gly  
 100 105 110

caa gga acc tca gtc acc gtc tcc tca 363  
 Gln Gly Thr Ser Val Thr Val Ser Ser  
 115 120

<210> 7  
 <211> 121  
 <212> PRT  
 <213> mouse

<400> 7  
 Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Ser  
 20 25 30

Gly Met Gly Val Ser Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu  
 35 40 45

Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser  
 50 55 60

Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Ser Asn Gln Val  
 65 70 75 80

Phe Leu Lys Ile Thr Ser Val Asp Thr Arg Asp Thr Ala Thr Tyr Tyr  
 85 90 95

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<400> 10
act tct ggt atg ggt gtg agc
Thr Ser Gly Met Gly Val Ser
1 5
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[illegible]

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<400> 11
Thr Ser Gly Met Gly Val Ser
1          5
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<220>
<221> CDS
<222> (1)..(42)
<223> 1F7 VH FR2 sequence
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42

<400> 13  
Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu Trp Leu Ala  
1 5 10

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<221> CDS
<222> (1)..(48)
<223> 1F7 VH CDR2 sequence
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48

```
<210> 15
<211> 16
<212> PRT
<213> mouse
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[illegible]

<400> 15  
 His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser Leu Lys Ser  
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<210> 16  
 <211> 96  
 <212> DNA  
 <213> mouse

<220>  
 <221> CDS  
 <222> (1)..(96)  
 <223> 1F7 VH FR3 sequence

<400> 16  
 cgg ctt aca atc tcc aag gat acc tcc agc aac cag gta ttc ctc aag 48  
 Arg Leu Thr Ile Ser Lys Asp Thr Ser Ser Asn Gln Val Phe Leu Lys  
 1 5 10 15

atc acc agt gtg gac act cga gat act gcc aca tac tac tgt gct cga 96  
 Ile Thr Ser Val Asp Thr Arg Asp Thr Ala Thr Tyr Tyr Cys Ala Arg  
 20 25 30

<210> 17  
 <211> 32  
 <212> PRT  
 <213> mouse

<400> 17  
 Arg Leu Thr Ile Ser Lys Asp Thr Ser Ser Asn Gln Val Phe Leu Lys  
 1 5 10 15

Ile Thr Ser Val Asp Thr Arg Asp Thr Ala Thr Tyr Tyr Cys Ala Arg  
 20 25 30

<210> 18  
 <211> 33  
 <212> DNA  
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<220>  
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 <222> (1)..(33)  
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<400> 18  
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 Arg Val Ser Leu Thr Ala Tyr Ala Met Asp Tyr  
 1 5 10

<400>	22						
gacattgtgc	tcaccaattc	tccagcttct	ttggctgtgt	ctctagggca	gagggccacc	60	
atctcctgca	aggccagcca	aagtgttgat	tatgatggtg	atagttatat	gtggtaccaa	120	
cagaaaccag	gacagccacc	caaactcctc	acctatgctg	catccaatct	agaatctggg	180	
atcccagcca	ggttttagtg	cagtgggtct	gggacagact	tcacctcaa	catccatcct	240	
gtggaggagg	aggatgctgc	aacctattac	tgtcagcttt	gtaatgagga	tcctcccacg	300	

[illegible]

ttcggtgctg ggaccaagct ggagctgaaa

330

<210> 23  
 <211> 330  
 <212> DNA  
 <213> mouse

<220>  
 <221> CDS  
 <222> (1)..(330)  
 <223> 1F7 VL chain gene

<400> 23  
 gac att gtg ctc acc aat tct cca gct tct ttg gct gtg tct cta ggg 48  
 Asp Ile Val Leu Thr Asn Ser Pro Ala Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 cag agg gcc acc atc tcc tgc aag gcc agc caa agt gtt gat tat gat 96  
 Gln Arg Ala Thr Ile Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp  
 20 25 30  
 ggt gat agt tat atg tgg tac caa cag aaa cca gga cag cca ccc aaa 144  
 Gly Asp Ser Tyr Met Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys  
 35 40 45  
 ctc ctc acc tat gct gca tcc aat cta gaa tct ggg atc cca gcc agg 192  
 Leu Leu Thr Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala Arg  
 50 55 60  
 ttt agt ggc agt ggg tct ggg aca gac ttc acc ctc aac atc cat cct 240  
 Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro  
 65 70 75 80  
 gtg gag gag gag gat gct gca acc tat tac tgt cag ctt tgt aat gag 288  
 Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Leu Cys Asn Glu  
 85 90 95  
 gat cct ccc acg ttc ggt gct ggg acc aag ctg gag ctg aaa 330  
 Asp Pro Pro Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
 100 105 110

<210> 24  
 <211> 110  
 <212> PRT  
 <213> mouse

<400> 24  
 Asp Ile Val Leu Thr Asn Ser Pro Ala Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15  
 Gln Arg Ala Thr Ile Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp  
 20 25 30



Gly Asp Ser Tyr Met Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys  
 35 40 45

Leu Leu Thr Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala Arg  
 50 55 60

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His Pro  
 65 70 75 80

Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Leu Cys Asn Glu  
 85 90 95

Asp Pro Pro Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
 100 105 110

<210> 25  
 <211> 69  
 <212> DNA  
 <213> mouse

<220>  
 <221> CDS  
 <222> (1)..(69)  
 <223> 1F7 VL FR1 sequence

<400> 25  
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 Asp Ile Val Leu Thr Asn Ser Pro Ala Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15

cag agg gcc acc atc tcc tgc 69  
 Gln Arg Ala Thr Ile Ser Cys  
 20

<210> 26  
 <211> 23  
 <212> PRT  
 <213> mouse

<400> 26  
 Asp Ile Val Leu Thr Asn Ser Pro Ala Ser Leu Ala Val Ser Leu Gly  
 1 5 10 15

Gln Arg Ala Thr Ile Ser Cys  
 20

<210> 27  
 <211> 42  
 <212> DNA  
 <213> mouse



21

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<210> 32
<211> 7
<212> PRT
<213> mouse
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```
<400> 32
Ala Ala Ser Asn Leu Glu Ser
1          5
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<210>	33
<211>	96
<212>	DNA
<213>	mouse

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<220>
<221> CDS
<222> (1)..(96)
<223> 1F7 VL FR3 sequence
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<400> 33  
 ggg atc cca gcc agg ttt agt ggc agt ggg tct ggg aca gac ttc acc 48  
 Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
 1 5 10 15

ctc aac atc cat cct gtg gag gag gag gat gct gca acc tat tac tgt 96  
Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys  
20 25 30

<210>	34
<211>	32
<212>	PRT
<213>	mouse

<400> 34  
Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
1 5 10 15

Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys  
20 25 30

<210>	35
<211>	27
<212>	DNA
<213>	mouse

27

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<400> 36
Gln Leu Cys Asn Glu Asp Pro Pro Thr
1          5
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<220>
<221> CDS
<222> (1)..(30)
<223> 1F7 VL FR4 sequence
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30

<400> 38  
Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
1 5 10